```
clear variables

syms x

fa = asin(2 * x + 3)
```

fa = $\mathrm{asin}(2\,x+3)$

```
simplify(diff(fa))
```

ans =

$$\frac{2}{\sqrt{1-(2\,x+3)^2}}$$

```
fb = @(x)(atan(x ^ 2 + 1))
```

fb = *function_handle with value:*
`@(x)(atan(x^2+1))`

```
simplify(diff(fb(x)))
```

ans =

$$\frac{2\,x}{(x^2+1)^2+1}$$

```
clear variables

syms x

int(x * sin(x ^ 2))
```

ans =

$$-\frac{\cos(x^2)}{2}$$

```
int((x ^ 2) * sqrt(x + 4))
```

ans =

$$-\frac{2\,(x+4)^{3/2}\,(168\,x-15\,(x+4)^2+112)}{105}$$

```
int(exp((-x) ^ 2), -inf, inf)
```

ans = ∞